

RADAR APPARATUS

5

ABSTRACT OF THE DISCLOSURE

Disclosed is a radar apparatus which receives a transmitted signal reflected from an object by switching between a plurality of antennas, wherein the plurality of antennas are divided into a plurality of groups, and at least one of the plurality of antennas contained in each of the groups is a common antenna. The radar apparatus comprises: a selector switch section having a plurality of selector switches each for sequentially and selectively switching output terminals of the plurality of antennas and the common antenna contained in a corresponding one of the groups for connection to an input terminal; a plurality of channels each having an A/D converter and a downconverting section for downconverting a received signal that has been input from each of the antennas to the input terminal via a corresponding one of the plurality of selector switches; and a digital signal processing section for receiving an output from the A/D converter of each of the channels, wherein the digital signal processing section applies prescribed processing to detect the distance to or the relative velocity of the object.